

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P883249

Luminaire Tested: **NAV-SB3C-730-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883249  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3C-730-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22127 lumens  
Efficiency: N/A  
Efficacy: 148.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

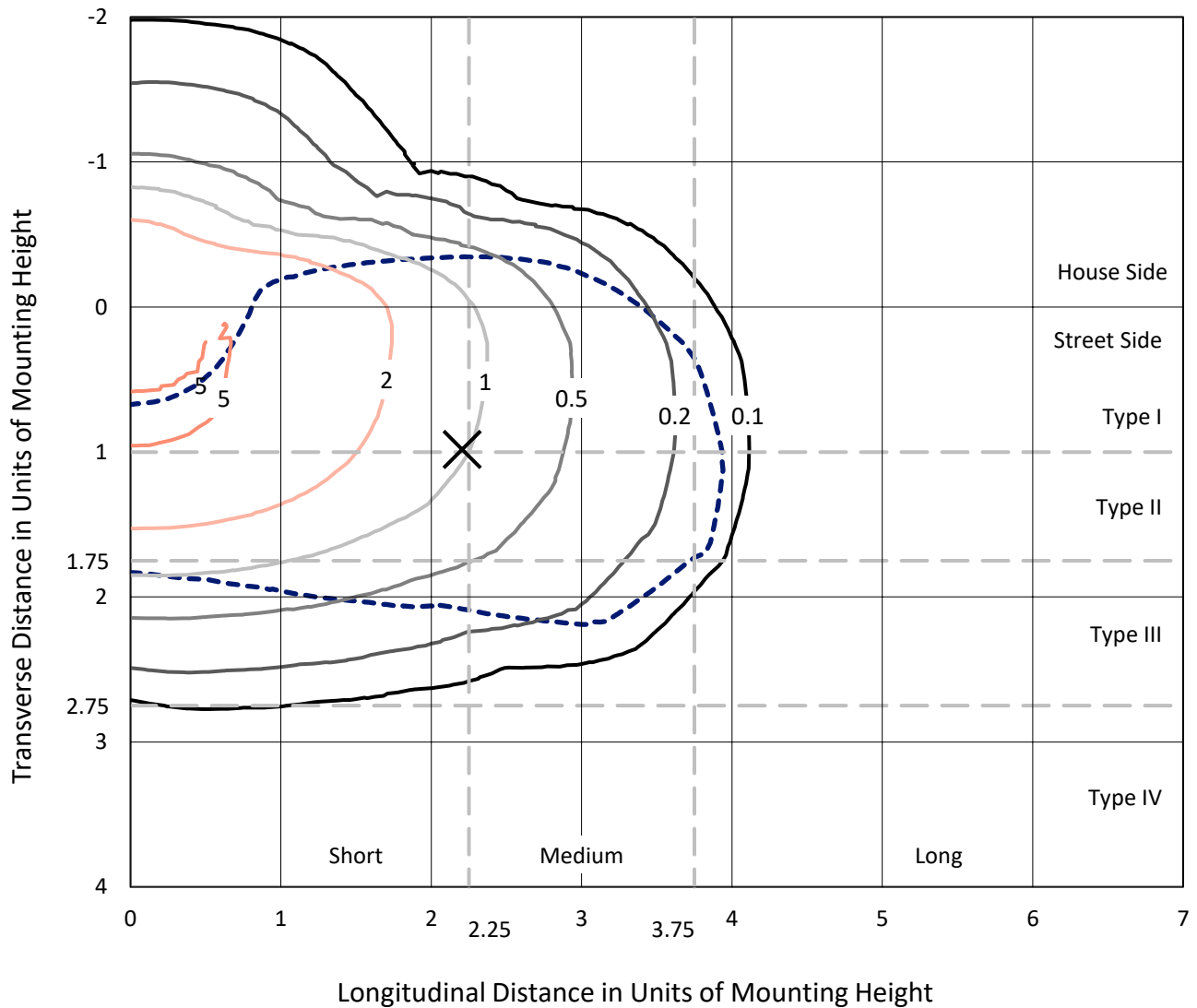
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 1.259  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

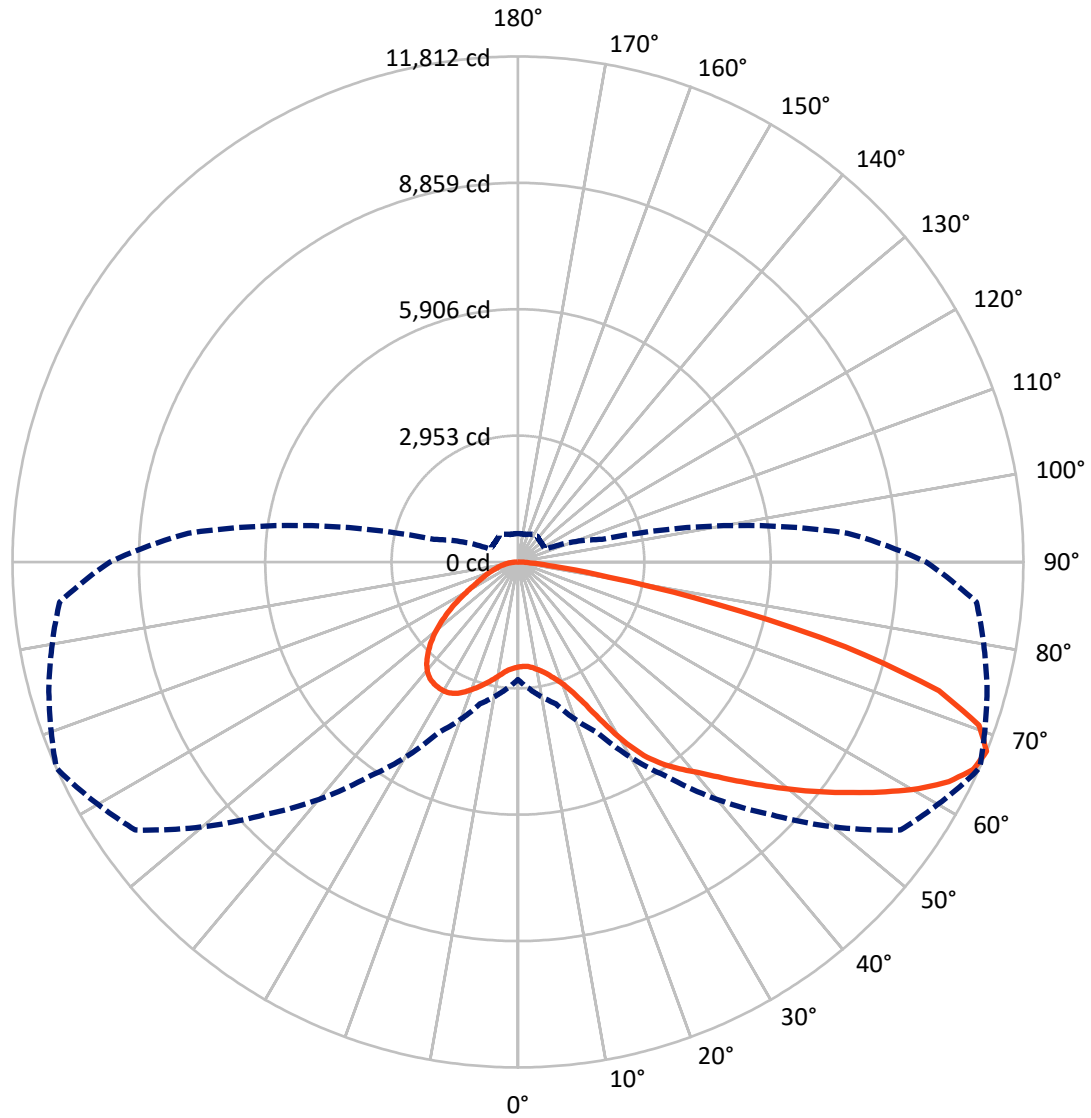
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5501.8	0.0	5501.8
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	16625.2	0.0	16625.2
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	22127.0	0.0	22127.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.3	1.1
10°-20°	803.9	3.6
20°-30°	1549.5	7.0
30°-40°	2716.8	12.3
40°-50°	4039.0	18.3
50°-60°	5119.8	23.1
60°-70°	5009.6	22.6
70°-80°	2389.6	10.8
80°-90°	255.4	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	22127.0	100.0
0°-180°	22127.0	100.0

**Coefficient of Utilization**



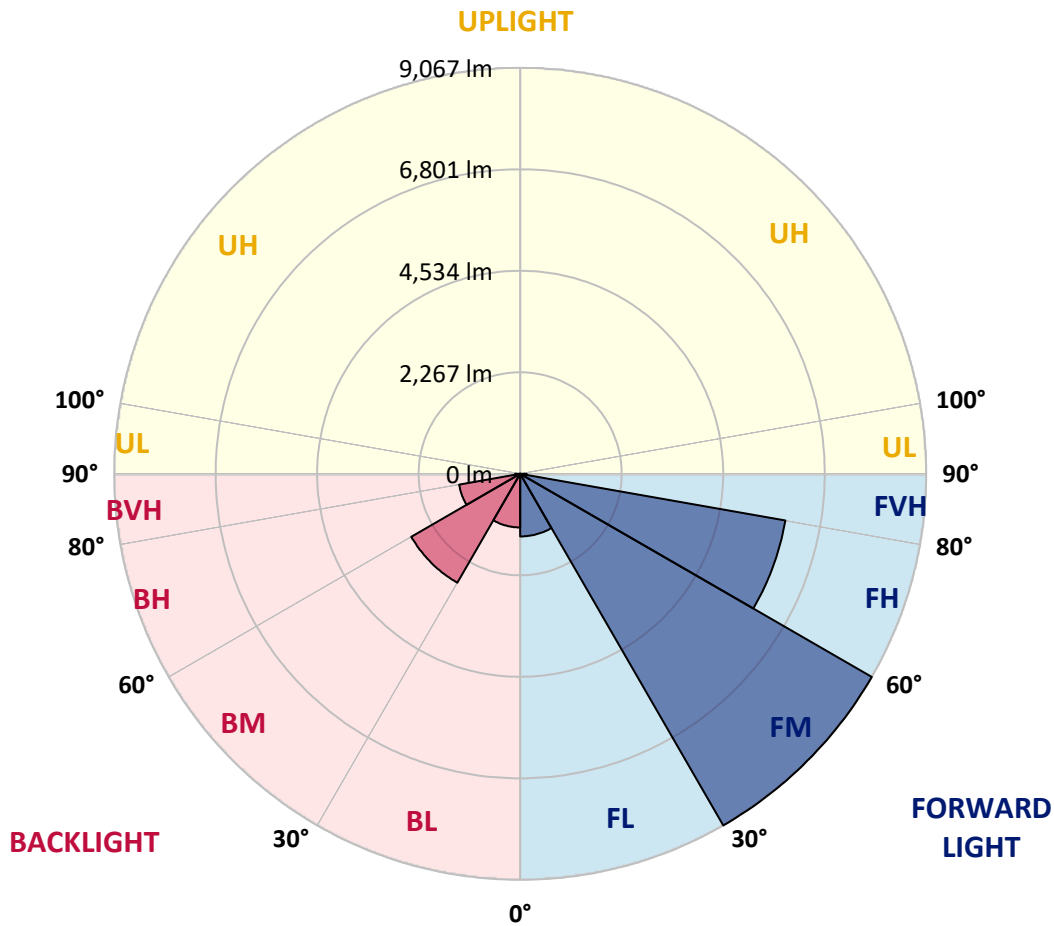
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1398.2	6.3			
FM (30°-60°)	9067.5	41.0			
FH (60°-80°)	6014.7	27.2			G3/7500
FVH (80°-90°)	144.8	0.7			G2/225
BL (0°-30°)	1198.5	5.4	B3/2500		
BM (30°-60°)	2808.2	12.7	B3/5000		
BH (60°-80°)	1384.5	6.3	B3/2500		G3/2500
BVH (80°-90°)	110.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2
2.5°	2428.6	2442.6	2439.1	2433.3	2432.1	2434.4	2437.9	2441.4	2440.2	2446.0	2455.3
5°	2421.6	2435.6	2434.4	2434.4	2439.1	2448.4	2454.2	2460.0	2454.2	2461.2	2473.9
7.5°	2426.3	2436.7	2441.4	2446.0	2457.7	2475.1	2489.1	2501.8	2494.9	2503.0	2519.3
10°	2485.6	2493.7	2498.4	2498.4	2506.5	2526.3	2540.2	2563.5	2557.6	2570.4	2591.4
12.5°	2593.7	2601.8	2601.8	2597.2	2603.0	2615.8	2620.4	2646.0	2635.5	2656.5	2677.4
15°	2726.2	2742.5	2729.7	2721.6	2723.9	2736.7	2735.5	2755.3	2744.8	2762.3	2780.9
17.5°	2872.7	2893.6	2872.7	2871.5	2866.9	2880.8	2882.0	2899.4	2880.8	2893.6	2906.4
20°	3045.9	3075.0	3057.5	3063.4	3052.9	3058.7	3064.5	3090.1	3061.0	3070.3	3066.8
22.5°	3290.1	3324.9	3306.3	3328.4	3321.5	3316.8	3315.6	3361.0	3315.6	3319.1	3285.4
25°	3645.8	3687.7	3655.1	3685.3	3685.3	3700.4	3717.9	3776.0	3700.4	3678.4	3591.2
27.5°	4171.3	4213.1	4149.2	4167.8	4162.0	4199.2	4180.6	4324.7	4243.4	4207.3	4031.8
30°	4803.7	4878.1	4757.2	4752.6	4746.8	4806.0	4832.8	4928.1	4845.6	4809.5	4597.9
32.5°	5487.3	5565.2	5421.0	5379.2	5357.1	5393.1	5371.1	5447.8	5390.8	5335.0	5073.4
35°	6210.4	6287.2	6150.0	6068.6	5980.2	5904.7	5825.6	5845.4	5791.9	5707.0	5436.2
37.5°	6894.0	7034.7	6889.4	6802.2	6639.4	6491.8	6270.9	6179.0	6129.0	6051.2	5778.0
40°	7590.4	7670.6	7560.2	7485.8	7309.1	7077.7	6724.3	6530.1	6462.7	6387.1	6155.8
42.5°	8103.1	8179.8	8120.5	8069.4	7931.0	7662.5	7205.6	6962.6	6865.0	6780.1	6583.6
45°	8510.0	8566.9	8529.7	8548.3	8489.1	8228.6	7704.3	7426.5	7325.3	7221.9	7067.2
47.5°	8673.9	8734.4	8793.6	8904.1	9005.2	8813.4	8240.3	7928.7	7821.7	7716.0	7563.7
50°	8655.3	8716.9	8889.0	9123.8	9437.7	9373.8	8805.3	8463.5	8364.7	8243.8	8103.1
52.5°	8506.5	8576.2	8797.1	9187.8	9687.7	9793.5	9380.7	9015.7	8922.7	8778.5	8637.9
55°	8115.9	8157.7	8489.1	9042.4	9747.0	10086.4	9944.6	9604.0	9511.0	9309.8	9156.4
57.5°	7391.6	7452.0	7934.5	8650.7	9598.1	10285.2	10439.8	10222.4	10132.9	9843.4	9683.0
60°	6446.4	6542.9	7095.1	7992.6	9219.1	10284.1	10889.8	10830.5	10756.1	10368.9	10201.5
62.5°	5376.9	5488.5	6019.8	7062.6	8556.5	9992.3	11171.1	11339.7	11301.3	10853.7	10639.8
65°	4129.4	4206.2	4735.1	5859.3	7525.3	9365.6	11203.6	11687.3	11694.3	11222.2	10868.8
67.5°	2749.5	2970.4	3429.6	4396.8	6144.2	8341.4	10917.7	11744.2	11811.7	11349.0	10753.7
70°	1341.6	1632.2	2082.2	2857.6	4396.8	6770.8	10170.1	11276.9	11426.9	10979.3	10067.8
72.5°	556.9	651.0	896.3	1410.2	2523.9	4568.9	8668.1	10009.7	10287.5	9728.4	8464.6
75°	375.5	406.9	512.7	723.1	1149.8	2253.1	6251.1	7463.7	7911.3	7347.4	6005.8
77.5°	289.5	309.2	373.2	505.7	683.6	852.2	3345.9	4498.0	4729.3	4378.2	3125.0
80°	227.9	243.0	279.0	368.5	484.8	455.7	1140.5	2038.0	2171.7	1821.7	1004.5
82.5°	197.6	203.4	200.0	250.0	322.0	266.2	374.3	752.2	830.1	602.2	327.8
85°	143.0	159.3	166.2	154.6	170.9	134.9	153.5	266.2	293.0	261.6	184.8
87.5°	58.1	86.0	105.8	100.0	62.8	38.4	47.7	77.9	89.5	97.7	60.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2	2454.2
2.5°	2456.5	2464.6	2470.5	2477.4	2482.1	2489.1	2503.0	2511.1	2512.3	2518.1	2517.0
5°	2478.6	2490.2	2503.0	2521.6	2542.5	2560.0	2586.7	2605.3	2612.3	2618.1	2616.9
7.5°	2526.3	2542.5	2565.8	2598.3	2628.6	2651.8	2684.4	2706.5	2728.5	2736.7	2737.8
10°	2597.2	2620.4	2654.1	2698.3	2730.9	2761.1	2794.8	2813.4	2835.5	2844.8	2849.4
12.5°	2685.5	2709.9	2754.1	2815.7	2846.0	2866.9	2878.5	2873.9	2878.5	2886.7	2889.0
15°	2786.7	2813.4	2863.4	2929.7	2950.6	2932.0	2906.4	2883.2	2879.7	2882.0	2890.1
17.5°	2906.4	2926.2	2984.3	3040.1	3025.0	2948.3	2892.5	2855.3	2836.7	2830.8	2839.0
20°	3073.8	3073.8	3121.5	3156.4	3055.2	2925.0	2837.8	2777.4	2739.0	2722.7	2719.2
22.5°	3277.3	3258.7	3288.9	3264.5	3049.4	2859.9	2739.0	2634.4	2576.2	2553.0	2549.5
25°	3535.4	3513.3	3505.1	3354.0	3007.6	2756.4	2560.0	2433.3	2382.1	2369.3	2371.6
27.5°	3924.8	3869.0	3763.2	3402.8	2930.8	2593.7	2350.7	2233.3	2204.2	2205.4	2208.9
30°	4443.3	4331.7	4072.5	3411.0	2805.3	2363.5	2136.8	2053.1	2039.1	2045.0	2064.7
32.5°	4923.5	4817.7	4388.7	3373.8	2612.3	2138.0	1945.0	1889.2	1868.2	1875.2	1884.5
35°	5300.1	5271.1	4681.7	3321.5	2375.1	1926.4	1772.9	1725.2	1684.6	1675.3	1682.2
37.5°	5655.9	5644.3	4901.4	3248.2	2140.3	1776.4	1634.6	1571.8	1512.5	1479.9	1481.1
40°	6046.5	6034.9	5045.5	3135.4	1932.2	1646.2	1510.2	1427.6	1354.4	1295.1	1300.9
42.5°	6486.0	6417.4	5114.1	2973.8	1755.5	1535.7	1409.0	1297.4	1200.9	1146.3	1149.8
45°	6966.1	6811.5	5113.0	2768.1	1606.7	1434.6	1300.9	1142.8	1053.3	1002.1	999.8
47.5°	7475.3	7188.1	5050.2	2540.2	1462.5	1323.0	1133.5	1012.6	953.3	921.9	914.9
50°	8000.8	7540.4	4943.2	2278.6	1314.9	1196.3	1028.9	946.3	901.0	871.9	861.5
52.5°	8494.9	7860.1	4814.2	1982.2	1164.9	1073.0	982.4	918.4	870.8	838.2	824.3
55°	8954.1	8135.6	4631.7	1678.7	1042.8	990.5	960.3	906.8	852.2	813.8	798.7
57.5°	9362.1	8314.7	4316.6	1393.9	955.6	933.5	937.0	887.0	824.3	791.7	770.8
60°	9701.6	8446.0	3850.4	1130.0	884.7	877.7	901.0	849.8	776.6	739.4	723.1
62.5°	9905.1	8443.7	3278.4	925.4	824.3	826.6	853.3	803.3	728.9	694.1	683.6
65°	9887.6	8236.8	2650.7	791.7	766.1	768.5	803.3	752.2	689.4	668.5	667.3
67.5°	9537.7	7732.2	2033.3	704.5	702.2	712.7	753.3	717.3	665.0	662.7	666.2
70°	8590.2	6684.8	1464.8	634.8	635.9	651.0	704.5	695.2	652.2	656.8	655.7
72.5°	6888.2	5096.7	983.5	561.5	562.7	587.1	658.0	677.8	639.4	701.0	710.3
75°	4587.5	3178.5	632.4	483.6	484.8	516.2	617.3	644.1	604.5	698.7	704.5
77.5°	2204.2	1428.8	458.1	406.9	406.9	436.0	533.6	576.6	515.0	542.9	497.6
80°	761.5	537.1	360.4	327.8	320.9	340.6	449.9	499.9	444.1	409.2	383.6
82.5°	299.9	279.0	289.5	254.6	231.4	244.1	349.9	412.7	326.7	295.3	294.1
85°	172.1	181.4	204.6	168.6	133.7	150.0	256.9	296.5	246.5	217.4	222.1
87.5°	46.5	63.9	94.2	87.2	60.5	63.9	122.1	163.9	141.8	109.3	112.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)